

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-128113

(43)Date of publication of application : 11.05.2001

(51)Int.Cl.

H04N 5/91  
H04Q 7/38  
H04M 11/00  
H04N 5/00  
H04N 5/225  
H04N 5/907  
H04N 5/765  
H04N 7/173  
H04N 7/18

(21)Application number : 11-308647

(71)Applicant : FUJI PHOTO FILM CO LTD

(22)Date of filing : 29.10.1999

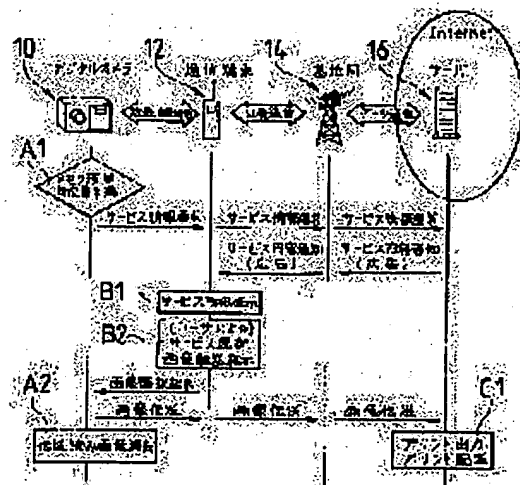
(72)Inventor : MAKISHIMA SUGIO

## (54) PICTURE DATA TRANSFER SYSTEM, ELECTRONIC CAMERA, AND COMMUNICATION TERMINAL

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a picture data transfer system, an electronic camera, and a communication terminal which surely prevent the remaining memory capacity in a digital camera from running out in the picture data transfer system where picture data photographed by the digital camera is transferred to a server through the communication terminal such as a portable telephone.

**SOLUTION:** When the remaining memory capacity for preservation of picture data is reduced to a prescribed value or smaller in a digital camera 10, a signal of a service information request is transmitted to a communication terminal 12. Then the communication terminal 12 automatically connects a line to a server 16 and acquires service contents from the server 16 and displays acquires service contents. When a user selects, for example, a picture preservation service and instructs transfer of picture data, the digital camera 10 transfers picture data in the memory for preservation to the server 16 through the communication terminal 12 and erases transferred picture data from the



memory for preservation. Thus the empty capacity of the memory for preservation is secured.

---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

CLAIMS

---

[Claim(s)]

[Claim 1] In the image data transfer system which transmits the image data which recorded the image data picturized with the electronic camera on the record medium, and was recorded on this record medium to the target server through a communication line A memory residue detection means to detect that the memory residue of said record medium became less than the specified quantity, If it is detected that said memory residue became less than the specified quantity with said memory residue detection means The image data transfer system characterized by having an image data transfer promotion means to make a user recognize that said memory residue became less than the specified quantity, and to demand the image data transfer to said server from him.

[Claim 2] The image data transfer system of claim 1 characterized by having a processing means to eliminate the this transmitted image data from said record medium when the image data transfer to said server was performed.

[Claim 3] Said image data transfer promotion means is the image data transfer system of claim 1 characterized by displaying the selection screen which chooses the image data transfer to said server, or claim 2.

[Claim 4] Said image data transfer promotion means is the image data transfer system of claim 1 characterized by acquiring the contents of service which said server offers from said server, displaying these contents of service, and making selectable the image data transfer to said server while connecting a communication line to said server automatically, if it is detected that said memory residue became less than the specified quantity with said memory residue detection means, or claim 2.

[Claim 5] Said specified quantity used as the criteria of the detection in said memory residue detection means is an image data transfer system of [ 1 / any ] claim 1 characterized by the ability to set it as the amount of arbitration thru/or the claims 4.

[Claim 6] The image data transfer to said server is an image data transfer system of [ 1 / any ] claim 1 characterized by carrying out through the communication terminal in which said electronic camera and communication link are possible thru/or the claims 5.

[Claim 7] Said image data transfer promotion means is the image data transfer system of claim 6 characterized by preparing for said communication terminal.

[Claim 8] Said electronic camera is the image data transfer system of claim 7 which will send a predetermined signal to said communication terminal, and will be characterized by making it recognize that said memory residue became less than the specified quantity to the user, and urging the image data transfer to said server with said image data transfer promotion means if it is detected that had said memory for maintenance and a memory residue detection means, and said memory residue became less than the specified quantity with said memory residue detection means.

[Claim 9] Said server is an image data transfer system of [ 1 / any ] claim 1 characterized by offering the service which prints the transmitted image data thru/or the claims 8.

[Claim 10] The electronic camera used for the image data transfer system of [ 1 / any ] claim 1 thru/or the claims 9.

[Claim 11] The communication terminal used for the image data transfer system of [ 1 / any ] said claim 6 thru/or the claims 9.

---

[Translation done.]

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DETAILED DESCRIPTION

---

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the image data transfer system, electronic camera, and communication terminal which transmit the image data which started the image data transfer system, the electronic camera, and the communication terminal, especially was recorded with the electronic camera to an internet server.

[0002]

[Description of the Prior Art] Conventionally, the image data transfer system which transmits the image data photoed with the digital camera from a digital camera to communication terminals (cellular phone etc.), and transmits the image data to the server of the Internet through a public line from a communication terminal is known (JP,9-322114,A, JP,10-336238,A). Since according to this system an opening can be made from transmitting that image data to a server in memory even when the memory of a digital camera fills with image data, the opening of memory is lost, and the fault of photography becoming impossible can be canceled, and there is an advantage that the amount of memory loading of a digital camera can also be lessened. Moreover, by recent years, the service which a server offers can also be diversified and a print order etc. can also be performed now by transmitting image data to a server.

[0003]

[Problem(s) to be Solved by the Invention] However, since an image data transfer took time amount even if it uses the above systems, there was a possibility of next missing a photography chance, in transmitting image data to a server, after the memory of a digital camera fills. Moreover, whenever it takes a photograph, even if it transmits image data, it becomes impossible to perform the next photography immediately, and there is a problem that a communication link tariff starts too many compared with the case where image data is transmitted collectively, further.

[0004] Furthermore, in recent years, the memory space of a memory card is increasing also about economy of the amount of memory loading which is one of the advantages of the above-mentioned system, and it is no longer so important a problem in itself.

[0005] It aims at offering the image data transfer system which enabled it to prevent beforehand that the residue of a record medium of this invention is lost by the image data which it was made in view of such a situation, and was photoed with the electronic camera, an electronic camera, and a communication terminal.

[0006]

[Means for Solving the Problem] In the image data transfer system which transmits the image data which recorded the image data picturized with the electronic camera on the record medium, and recorded it on this record medium to the target server through a communication line in order that this invention may attain said purpose A memory residue detection means to detect that the memory residue of said record medium became less than the specified quantity, If it is detected that said memory residue became less than the specified quantity with said memory residue detection means A user is made to recognize that said memory residue became less than the specified quantity, and it is characterized by

having an image data transfer promotion means to urge the image data transfer to said server.

[0007] In order according to this invention to perform a display etc. so that a user can recognize this when it becomes less than the capacity beforehand decided about the memory residue of the record medium which saves the image data photoed with the electronic camera, It is a user's being able to examine certainly whether image data being transmitted to a server, before running short of memory residues, he transmitting image data to a server, if he is required, and eliminating image data [ finishing / a transfer ] from the memory for preservation. The memory residues of a record medium run short and the unexpected situation of photography becoming impossible can be prevented beforehand. On the other hand, when it gives priority to photography, the image data transfer to a server can be canceled, and it can also carry out to another opportunity.

[0008]

[Embodiment of the Invention] It explains in full detail about the gestalt of desirable operation of the image data transfer system applied to this invention according to an accompanying drawing below, an electronic camera, and a communication terminal.

[0009] Drawing 1 is the whole image data transfer system block diagram with which this invention was applied. As shown in this drawing, this system consists of a digital camera 10, a communication terminal 12, a base station 14, and a server 16. Between a digital camera 10 and a communication terminal 12, it is connected by short-distance communication link. Bluetooth using a communication terminal 12 is terminal which communicates using communication lines, such as cellular phone, here, and using infrared radiation IrDA [ communication link / short-distance ] communication link, or a feeble electric wave etc. -- it is shown.

[0010] Moreover, it is connected by public correspondence between a communication terminal 12 and a base station 14, and is connected with it by data communication through communication networks, such as the Internet, between a base station 14 and a server 16. In addition, the Internet connectivity of the server 16 may not be carried out. Therefore, a user can transmit now the image data recorded on the digital camera 10 to the desired server 16 by the communication line using a communication terminal 12. In addition, naturally it is possible to transmit the additional information of the photography time added to image data besides image data, a photography location, etc., and when it is called an image data transfer in the following explanation, such additional information shall also be transmitted collectively if needed.

[0011] Next, the sequence of the image data transfer system of above-mentioned drawing 1 is explained using drawing 2. First, in a digital camera 10, a user sets up the specified quantity about the memory residue of the memory for preservation which records the photoed image data. This specified quantity is the amount of decision for performing automatically processing for urging the image data transfer to a server 16, when the memory residue of the memory for preservation decreases so that it may mention later. Moreover, in a communication terminal 12, a user registers the data (telephone number, address) for carrying out automatic connection to the server 16 which offers image application. In addition, although the print service which prints image data and is delivered to a user's origin as contents of service which a server 16 offers in this system, the image preservation service which keeps image data to a temporary image server, the image display service which opens image data to a third person can be considered, about these concrete contents of service, it mentions later. However, when any service transmits image data, it is made to keep the image with a predetermined gestalt.

[0012] In a digital camera 10, if it becomes under the specified quantity in which the user took a photograph of and the memory residue of the memory for preservation carried out [ above-mentioned ] a setup, a digital camera 10 will judge this (step A1), and will send the signal of service information requirements to a communication terminal 12 automatically. The signal of service information requirements requires the guidance information on the service which a server 16 offers so that it may mention later.

[0013] If the signal of service information requirements is received from a digital camera 10, a communication terminal 12 will connect a circuit to the server 16 which is a \*\*\*\* and which had and was set up beforehand, and will send the signal of service information requirements to a server 16

BS

through a base station 14. Thereby, the contents of service are notified to a communication terminal 12 through a base station 14 from a server 16.

[0014] A communication terminal 12 will display the contents of service on a display, if the notice of the contents of service is acquired from a server 16 (step B1). Here, a user can choose the service which receives offer and can direct an image data transfer (step B-2). However, it is not necessary to necessarily receive offer of service, and when it gives priority to photography, it can cancel.

[0015] If a user chooses one which a server 16 offers of services and directs an image data transfer, a communication terminal 12 directs to choose the image transmitted to a digital camera 10. If these directions are received, a digital camera 10 will make the image data transmitted to a server 16 to a user choose, will read the image data transmitted from the memory for preservation, and will transmit that image data to a communication terminal 12. A communication terminal 12 transmits the image data transmitted from the digital camera 10 to a server 16 through a base station 14. Moreover, according to the contents of service of a server 16, a user inputs required information, and the information is transmitted to a server 16. Thereby, the image data saved at the digital camera 10 is transmitted to a server 16. However, the image data to transmit is good also as all image data a user is recorded on the memory for preservation rather than chooses [ for example, ], or it is good also as image data for several coma minutes which can be transmitted within the time amount specified by a user, and program design of the processing of the digital camera 10 at the time of receiving image selection directions from a communication terminal 12 can be carried out to arbitration.

[0016] Then, in a digital camera 10, image data [ finishing / transmission ] is eliminated from the memory for preservation, and sufficient availability for the memory for preservation is secured (step A2).

[0017] On the other hand, in a server 16, it processes according to the contents of service which had the image data chosen. For example, when print service is chosen, it carries out a printed output, using the transmitted image data as a photoprint, and the photoprint is delivered in the location of hope (step C1).

X [0018] As mentioned above, since service guidance of a server 16 is automatically displayed on a communication terminal 12 when the memory residue of the memory for preservation of a digital camera 10 turns into the specified quantity (for example, storage capacity of the image data for a number coma), a user can recognize certainly that the memory residue of the memory for preservation of a digital camera 10 has decreased. Therefore, if required, image data is transmitted to a server, by eliminating image data [ finishing / a transfer ] from the memory for preservation, the memory residues of the memory for preservation run short, and the unexpected situation of photography becoming impossible can be prevented beforehand. On the other hand, if it cancels receiving offer of service, priority can be given to photography and it can also be performed.

[0019] Next, the internal configuration of the above-mentioned digital camera 10 and a communication terminal 12 and actuation are explained. Drawing 3 is the block diagram having shown the internal configuration of the above-mentioned digital camera 10 and a communication terminal 12. First, explanation of a digital camera 10 constitutes a digital camera 10 mainly from a controller 20, the camera section 22, a display 24, the key input section 26, memory 28 for preservation, and transceiver section 30 grade.

[0020] A controller 20 controls actuation of each part as shown below in generalization according to the contents of actuation inputted from the key input section 26. The camera section 22 consists of a taking lens, a CCD image pick-up circuit, a digital disposal circuit, etc., picturizes a photographic subject image through a taking lens and CCD, and incorporates the image data which shows the photographic subject image to an image memory 32. In addition, an image memory 32 is memory which records the image data for the 1 field temporarily. If ON actuation of the key input section 26 to a shutter carbon button is inputted into a controller 20, it will be performed by control of a controller 20 synchronizing with this, and as for incorporation of the image data based on the camera section 22, record-keeping of the image data is carried out to the memory 28 for preservation. In addition, irrespective of ON actuation of a shutter carbon button, in case through drawing is displayed on a display 24, image data is serially incorporated from the camera section 22, the image data of an image memory 32 is rewritten, and the

image of image data captured newly serially is displayed on a display 24.

[0021] Displays 24 are image display means, such as LCD, and display the image data incorporated from the camera section 22 as mentioned above in the image memory 32, various actuation menu screens, etc. Moreover, the image data currently recorded on the memory 28 for preservation can also be indicated by playback by actuation of the key input section 26 at a display 24, in this case, the image data currently recorded on the memory 28 for preservation is read to an image memory 32 by control of a controller 20, and that image data is displayed on a display 24. *menu pow*

[0022] The memory 28 for preservation is the memory for recording image data, such as a memory card, and if ON actuation of a shutter carbon button is given to a controller 20 from the key input section 26 as mentioned above, the image data incorporated in the image memory 32 will be then recorded through compression / elongation circuit 34 from the camera section 22. In case compression / elongation circuit 34 indicates by playback the image data into which image data is compressed or elongated in a predetermined format, the image data was compressed into when recording the image data of an image memory 32 on the memory 28 for preservation, and the memory 28 for preservation was compressed at a display 24, the compressed image data is elongated, it restores to the original image data, and it is written in an image memory 32.

[0023] The transceiver section 30 exchanges data with a communication terminal 12 by short-distance communication link, and as drawing 2 explained, it transmits the signal of service information requirements, the image data of the memory 28 for preservation, etc. to a communication terminal 12. Moreover, the signal of image selection directions etc. is received from a communication terminal 12. The signal of the image selection directions from a communication terminal 12 is given to a controller 20.

[0024] If actuation of the digital camera 10 constituted like the above is explained, as drawing 2 also explained, a user will first input and set up the memory residue (the above-mentioned specified quantity) of the memory 28 for preservation when sending the signal of service information requirements automatically to a communication terminal 12 from the key input section 26. You may enable it to carry out by, for example, specifying the recordable remaining numbers of coma, and may enable it to carry out by specifying the remaining byte count about a setup of this specified quantity.

[0025] A controller 20 detects the memory residue of the memory 28 for preservation at the time of photography, and if it detects having become less than the specified quantity by which a setup of the memory residue was carried out [ above-mentioned ], it will transmit the signal of service information requirements to a communication terminal 12 from the transceiver section 30. Thereby, in a communication terminal 12, the contents of service are notified from a server 16, and the contents of service are displayed on the display 42 of a communication terminal 12.

[0026] If a user chooses predetermined service and performs image transfer directions in a communication terminal 12, the signal of image selection directions will be transmitted to a digital camera 10 from a communication terminal 12. When these image selection directions are given through the transceiver section 30, the controller 20 of a digital camera 10 displays the selection screen of the image data to transmit on a display 24, and makes a user perform that selection. If the image data which a user transmits from the key input section 26 is chosen, a controller 20 will read the image data from the memory 28 for preservation, and will transmit it to a communication terminal 12 through the transceiver section 30. And the transmitted image data is eliminated from the memory 28 for preservation. Thereby, the availability of the memory 28 for preservation is secured. In addition, elimination of image data may eliminate automatically about the transmitted image data, and a user specifies only a required thing from the key input section 26, and may be made to eliminate it. *record*

[0027] Next, a communication terminal 12 is explained. As shown in this drawing, a communication terminal 12 has a function as a cellular phone, and mainly consists of a controller 40, a display 42, the key input section 44, the transceiver section 46, and transmission part 48 grade. In addition, the explanation about the function which it has as a communication terminal general as a cellular phone etc. is omitted here. *cellular phone*

[0028] A controller 40 controls actuation of each part as shown below in generalization according to the



contents of actuation inputted from the key input section 44. Displays 42 are display means, such as LCD, and the service information acquired from the server 16 is mainly displayed as contents of a display relevant to this invention. In addition, the information displayed on a display 42 is held at memory 50, and is read from this memory 50 to a display 42.

[0029] The transceiver section 46 transmits the signal of the image selection directions at the time of exchanging data with the transceiver section 30 of the above-mentioned digital camera 10 by short-distance communication link, and receiving the signal and image data of service information requirements from a digital camera 10, and transmitting image data to a server 16 to a digital camera 10. The image data which received is once recorded on memory, and the signal of service information requirements is given to a controller 40.

BS [0030] A transmission part 48 performs a desired server 16 and data communication through a base station 14 by connection with the base station 14 by public correspondence. For example, when there is a signal of service information requirements from a digital camera 10 as mentioned above, it is automatic, and it sends the telephone number etc. from this transmission part 48, and a controller 40 carries out a line connection to the Internet, transmits the address of the desired server 16, and connects it with that server 16. And the signal of service information requirements is transmitted to the server 16. Thereby, the contents of service which the server 16 offers are transmitted to a transmission part 48 from a server 16. Thus, the transmitted service information is recorded on memory 50, and is displayed on a display 42. address information

eg [0031] If actuation of the communication terminal 12 constituted like the above is explained, as drawing 2 also explained, the user will register the data (telephone number, address, etc.) for carrying out automatic connection at a server 16 into the communication terminal 12 first.

[0032] And if the memory residue of the memory 28 for preservation of a digital camera 10 turns into under the specified quantity as mentioned above and the signal of service information requirements is inputted into a controller 40 through the transceiver section 46 from a digital camera 10, a controller 40 will send the telephone number etc. from a transmission part 48, it will carry out a line connection to the Internet, it will transmit the address of a server 16, and will connect a circuit to a server 16. And the signal of service information requirements is transmitted to the server 16. Thereby, the contents of service (service guidance) which the server 16 offers are notified to a transmission part 48 from a server 16. Thus, the notified contents of service are recorded on memory 50, and are displayed on a display 42.

[0033] Then, if a user chooses desired service in the key input section 44 among the contents of service displayed on the display 42 and directs an image data transfer, a controller 40 will transmit the signal of the above-mentioned image selection directions to a digital camera 10 while transmitting the signal which requires offer of the selected service to a server 16 from a transmission part 48. If selection of the image data transmitted as mentioned above with a digital camera 10 is performed by this and the image data is transmitted to the transceiver section 46 from a digital camera 10, the image data will be transmitted to a server 16 through memory 50 and a transmission part 48. In addition, naturally it is also possible to input required information from the key input section 44 of a communication terminal 12, and to send it to a server 16 through a transmission part 48 according to the service which a server 16 offers, and the data transmitted to a server 16 are not restricted to above-mentioned image data etc.

[0034] Next, an example of the contents of service which a server 16 offers is explained using drawing 4. The server 16 shown in this drawing provides a user with various services through the Internet. As contents of service of the server 16 considered to be suitable in this invention, print service, image preservation service, image display service, etc. can be considered, for example.

[0035] Print service is service which makes a photoprint the image data transmitted via the communication link from the user, and is returned to a user. If a user specifically transmits image data and registration information (user ID, a password, print number of sheets of each image data, and print paper size) to choose print service and print to a server 16, a server 16 will transmit to a lab the image data and registration information (the user ID, the password, print number-of-sheets assignment, print paper size assignment) which have been transmitted. In a lab, according to the registration information, image data is printed out in a photoprint by the photograph printer 60, and a photograph store etc.

delivers the photoprint to 64 by the photograph delivery system 62. A user can receive the photoprint by the photograph store etc. attesting ID and a password by 64, and paying a tariff.

[0036] Image preservation service is service which stores temporarily the image data transmitted via a communication link from the user, and enables it to avoid the trouble to which memory, such as a digital camera, falls. A user chooses image preservation service, and if image data to save is transmitted and combined with a server 16 and user ID and the registration information on a password are transmitted, specifically, a server 16 will keep these images to a hard disk etc. A user can acquire these images at hand through the Internet etc. after going home. Moreover, PURITO service can be requested from there.

[0037] Image display service is service which is exhibiting and exhibiting a digital image via a communication link, and demands carrying out the share of the photograph from a user. A user chooses image display service, and if image data and registration information (user ID, password) to exhibit and release are transmitted, a server 16 will register these images into the digital image database 66, will link these images in HTML, and, specifically, will create and exhibit the homepage which can peruse an image. An acquaintance can refer to the exhibited image or it can request download and print service.

[0038] As mentioned above, although the service which displays the contents of service which a server 16 offers on the display 42 of a communication terminal 12, and receives offer by the communication terminal 12 was chosen with the gestalt of the above-mentioned implementation, the contents of service are displayed on the display 24 of not only this but the digital camera 10, and you may make it choose the service which receives offer with a digital camera 10.

[0039] Moreover, although a communication terminal 12 connects a circuit to a server 16, acquires the contents of service of a server 16 (service guidance) and it was made to express as the gestalt of the above-mentioned implementation when the memory residue of the memory 28 for preservation of a digital camera 10 turned into under the specified quantity It checks first whether an image data transfer is performed to a user, and only when performing an image data transfer, you may make it connect a circuit to a server 16, before connecting a circuit not only to this but to the server 16. In this case, as the approach of the check to the user of whether to perform an image data transfer, the contents of service of a server 16 are beforehand held to the communication terminal 12, those contents of service may be displayed on a display 42, and you may check by whether the user chose one of services, or it canceled. In addition, a communication terminal 12 chooses automatically the service chosen at this time after a line connection, and a user may enable it to omit the time and effort which chooses service again. Moreover, you may make it check by whether as an option, the selection screen of whether to perform an image data transfer was displayed on the digital camera 10 or the communication terminal 12, and the user chose the image data transfer as it in the selection screen.

[0040] Moreover, although the gestalt of the above-mentioned implementation did not explain, it is also possible to carry the image data transfer function in which a user can do manual actuation of the actuation switch of a digital camera 10 or the actuation switch of a communication terminal 12, can connect a communication line to the server of a request at the time of a request, and can transmit image data to a server from a digital camera 10 as a function of the above-mentioned digital camera 10 and a communication terminal 12. Like actuation of the image data transfer by such manual actuation, when the memory residue of the memory 28 for preservation of a digital camera 10 turns into [ for example, ] under the specified quantity A communication terminal 12 connects a circuit to a server 16, and it carries out automatically like [ the processing which acquires and displays the contents of service of a server 16 (service guidance) ] the gestalt of the above-mentioned implementation. After this Desired image data is transmitted to a server 16, and you may make it eliminate the transmitted image data by the same manual actuation as the above-mentioned image data transfer function. Or when the memory residue of the memory 28 for preservation of a digital camera 10 turns into under the specified quantity It is made to generate chisels, such as a display or a sound which makes a user recognize that the residue of the memory 28 for preservation became less than the specified quantity in the digital camera 10 or the communication terminal 12. After this A communication line is connected to a server by the same manual actuation as the above-mentioned image data transfer function, and you may make it transmit

image data to the server.

[0041] Moreover, even if the memory 28 for preservation in the above-mentioned digital camera 10 is not the record medium of a memory card etc. which can be detached and attached, it may be the record medium fixed to the interior of a digital camera 10.

[0042] Moreover, this invention is applicable like the above-mentioned digital camera 10, if it is the electronic camera which records a photography image electrically.

[0043] Moreover, in the gestalt of the above-mentioned implementation, although the digital camera 10 and the communication terminal 12 considered as another object, they are good also as a system which carries the function of the communication terminal 12 in connection with this invention in a digital camera 10, and does not use a communication terminal 12.

[0044]

[Effect of the Invention] According to the image data transfer system, electronic camera, and communication terminal concerning this invention explained above In order to perform a display etc. so that a user can recognize this when it becomes less than the capacity beforehand decided about the memory residue of the record medium which saves the image data photoed with the electronic camera, It is a user's being able to examine certainly whether image data being transmitted to a server, before running short of memory residues, he transmitting image data to a server, if he is required, and eliminating image data [ finishing / a transfer ] from the memory for preservation. The memory residues of a record medium run short and the unexpected situation of photography becoming impossible can be prevented beforehand. On the other hand, when it gives priority to photography, the image data transfer to a server can be canceled, and it can also carry out to another opportunity.

---

[Translation done.]

\* NOTICES \*

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

TECHNICAL FIELD

---

[Field of the Invention] This invention relates to the image data transfer system, electronic camera, and communication terminal which transmit the image data which started the image data transfer system, the electronic camera, and the communication terminal, especially was recorded with the electronic camera to an internet server.

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**PRIOR ART**

---

[Description of the Prior Art] Conventionally, the image data transfer system which transmits the image data photoed with the digital camera from a digital camera to communication terminals (cellular phone etc.), and transmits the image data to the server of the Internet through a public line from a communication terminal is known (JP,9-322114,A, JP,10-336238,A). Since according to this system an opening can be made from transmitting that image data to a server in memory even when the memory of a digital camera fills with image data, the opening of memory is lost, and the fault of photography becoming impossible can be canceled, and there is an advantage that the amount of memory loading of a digital camera can also be lessened. Moreover, by recent years, the service which a server offers can also be diversified and a print order etc. can also be performed now by transmitting image data to a server.

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**EFFECT OF THE INVENTION**

---

[Effect of the Invention] According to the image data transfer system, electronic camera, and communication terminal concerning this invention explained above In order to perform a display etc. so that a user can recognize this when it becomes less than the capacity beforehand decided about the memory residue of the record medium which saves the image data photoed with the electronic camera, It is a user's being able to examine certainly whether image data being transmitted to a server, before running short of memory residues, he transmitting image data to a server, if he is required, and eliminating image data [ finishing / a transfer ] from the memory for preservation. The memory residues of a record medium run short and the unexpected situation of photography becoming impossible can be prevented beforehand. On the other hand, when it gives priority to photography, the image data transfer to a server can be canceled, and it can also carry out to another opportunity.

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**TECHNICAL PROBLEM**

---

[Problem(s) to be Solved by the Invention] However, since an image data transfer took time amount even if it uses the above systems, there was a possibility of next missing a photography chance, in transmitting image data to a server, after the memory of a digital camera fills. Moreover, whenever it takes a photograph, even if it transmits image data, it becomes impossible to perform the next photography immediately, and there is a problem that a communication link tariff starts too many compared with the case where image data is transmitted collectively, further.

[0004] Furthermore, in recent years, the memory space of a memory card is increasing also about economy of the amount of memory loading which is one of the advantages of the above-mentioned system, and it is no longer so important a problem in itself.

[0005] It aims at offering the image data transfer system which enabled it to prevent beforehand that the residue of a record medium of this invention is lost by the image data which it was made in view of such a situation, and was photoed with the electronic camera, an electronic camera, and a communication terminal.

[0006]

---

[Translation done.]

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

## DESCRIPTION OF DRAWINGS

---

[Brief Description of the Drawings]

[Drawing 1] Drawing 1 is the whole image data transfer system block diagram with which this invention was applied.

[Drawing 2] Drawing 2 is drawing having shown the sequence of the image data transfer system of drawing 1.

[Drawing 3] Drawing 3 is the block diagram having shown the internal configuration of a digital camera and a communication terminal.

[Drawing 4] Drawing 4 is drawing used for explanation of an example of the contents of service which a server offers.

[Description of Notations]

10 [ -- 20 A server, 40 / -- A controller, 22 / -- 24 The camera section, 42 / -- 26 A display, 44 / -- The key input section, 28 / -- 30 The memory for preservation, 46 / -- The transceiver section, 48 / -- Transmission part ] -- A digital camera, 12 -- A communication terminal, 14 -- A base station, 16

---

[Translation done.]



\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

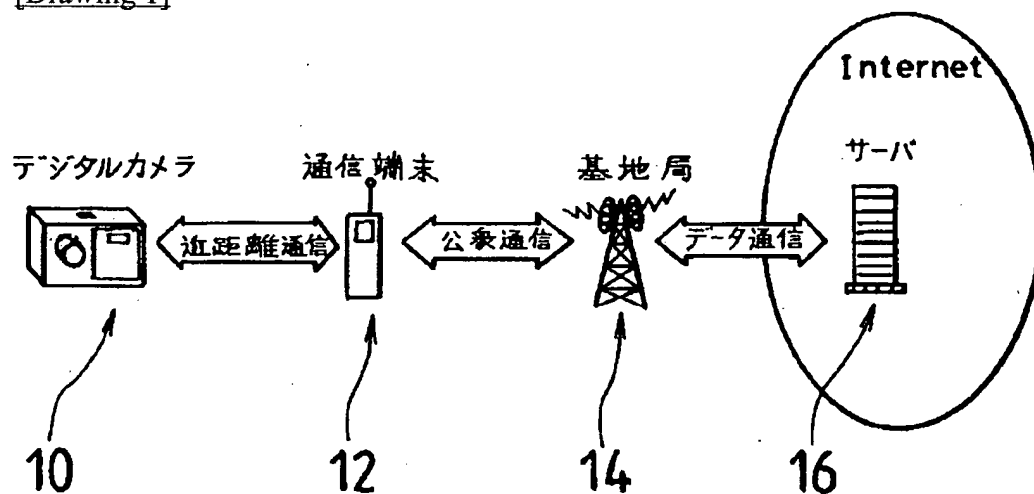
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DRAWINGS

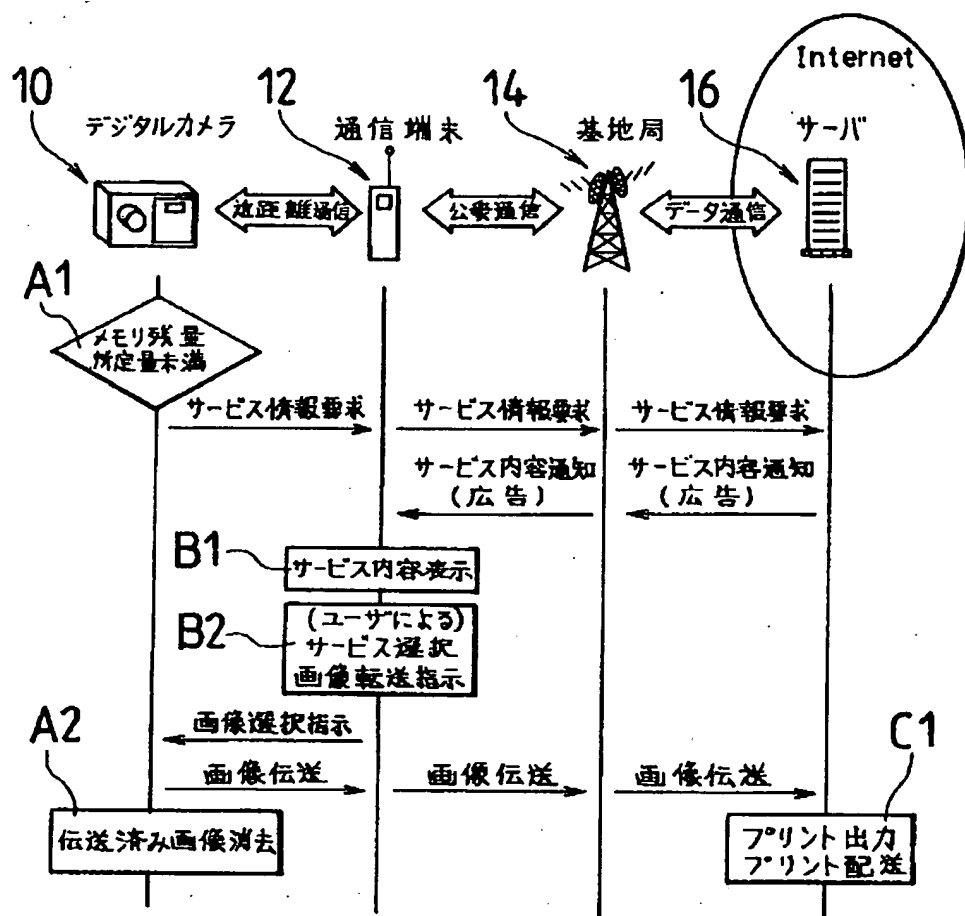
---

[Drawing 1]

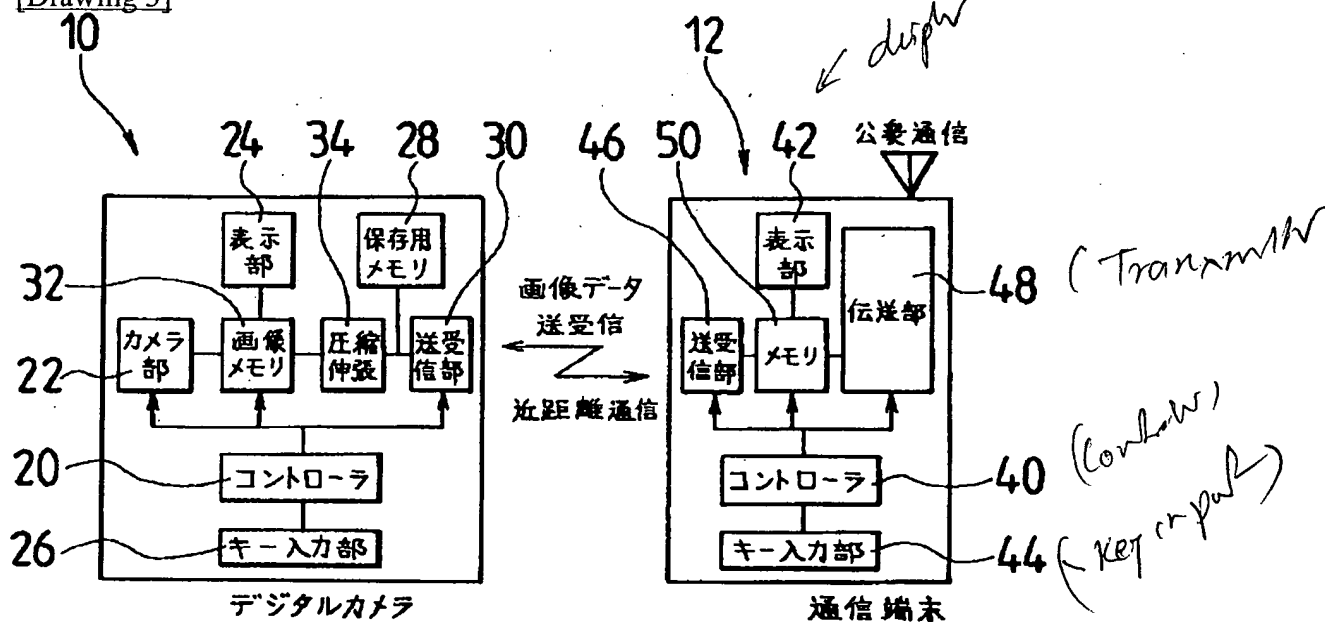


[Drawing 2]

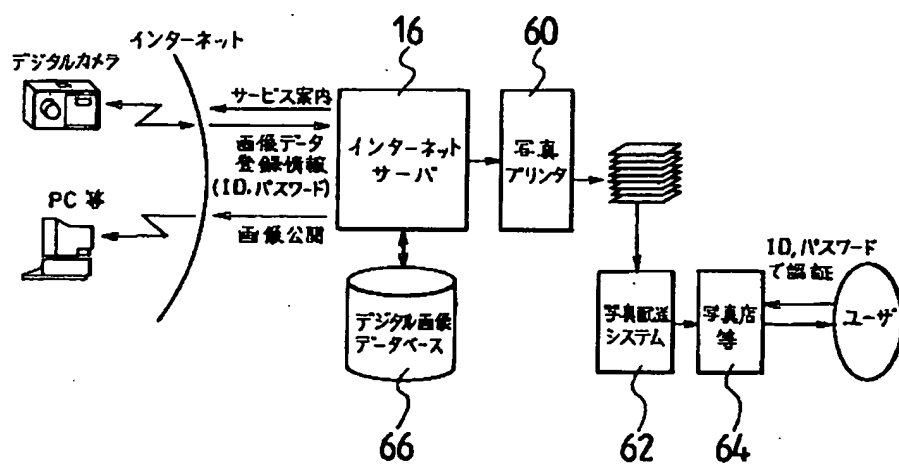
10: digital Camera  
12: Comm Term  
14: BS  
16: Serv



[Drawing 3]



[Drawing 4]



[Translation done.]